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Attorney Docket No.: 21402-168

1642

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS : Edinger, et al.  
SERIAL NUMBER : 09/981,151 EXAMINER : Not Yet Assigned  
FILING DATE : October 16, 2001 ART UNIT : 1642  
FOR : Proteins and Nucleic Acids Encoding Same

BOX IDS

Commissioner for Patents  
Washington, D.C. 20231



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PATENT TRADEMARK OFFICE

TRANSMITTAL LETTER

Transmitted herewith for filing in the present application are the following documents:

1. Information Disclosure Statement (2 pages);
2. Modified Form 1449/PTO (7 pages), in duplicate;
3. Copies of Cited References C1-C167; and
4. Return Postcard.

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 542-6000, Boston, Massachusetts.

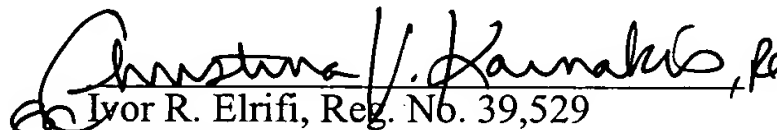
The Commissioner is authorized to charge any fees that may be due, or to credit any overpayment, to the undersigned's account, Deposit Account No. 50-0311 Ref. No. 21402-168. A duplicate copy of this transmittal letter is enclosed herewith.

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Respectfully submitted,

  
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Dated: March 22, 2002

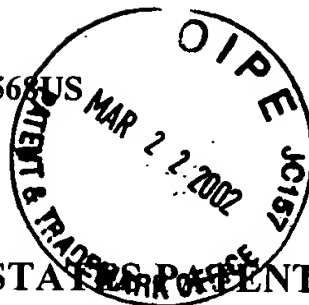


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**INFORMATION DISCLOSURE STATEMENT**

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants hereby make of record the documents listed on the attached modified Form PTO-1449, as well as copies of the listed documents.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits in the above-identified case. Accordingly, no fee or certification is believed required.

A copy of each of the references in the above-identified application is enclosed unless otherwise indicated on the attached modified Form PTO-1449. It is respectfully requested that the Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims, and signs the enclosed form PTO-1449 to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application.

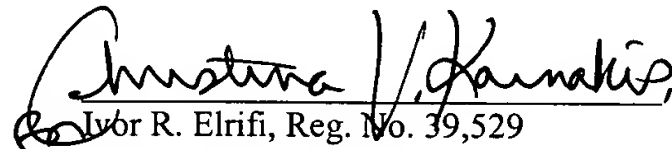
By submitting this Information Disclosure Statement, the Applicants make no representation that: (1) a search has been performed, of the extent of any search performed, or that more relevant information does not exist; (2) the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b); and (3) the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

APPLICANTS: Edinger, et al.  
U.S.S.N.: 09/981,151

Notwithstanding any statements by the Applicants, the Examiner is urged to form his/her own conclusion regarding the relevance of the cited information. An early and favorable action is hereby requested.

Please charge any additional fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311, Reference No. 21402-168.

Respectfully submitted,

 Reg. No. 39,529  
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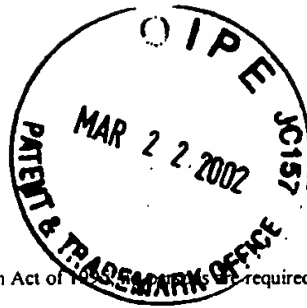
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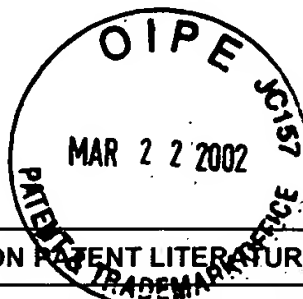
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Modified Form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	Application Number	09/981,151
	Filing Date	10/16/2001
	First Named Inventor	Edinger
	Group Art Unit	1642
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	21402-168

U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS					
Exam Initials	Cite No.	Foreign Patent Document Office Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No

OTHER PRIOR ART - NON-PATENT LITERATURE DOCUMENTS		
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	C1	Alderborn, et al. (2000). "Determination of single-nucleotide polymorphisms by real-time pyrophosphate DNA sequencing." <i>Genome Res</i> 10(8): 1249-58.
	C2	Alves, et al. (2000). "Gap junction modulation by extracellular signaling molecules: the thymus model." <i>Braz J Med Biol Res</i> 33(4): 457-65.
	C3	Aspenstrom (1997). "A Cdc42 target protein with homology to the non-kinase domain of FER has a potential role in regulating the actin cytoskeleton." <i>Curr Biol</i> 7(7): 479-87.
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	C7	Coates, et al. (2001). "Mammalian prohibitin proteins respond to mitochondrial stress and decrease during cellular senescence." <i>Exp Cell Res</i> 265(2): 262-73.
	C8	Cox and Palmiter (1983). "The metallothionein-I gene maps to mouse chromosome 8: implications for human Menkes' disease." <i>Hum Genet</i> 64(1): 61-4.
	C9	Dawson and Oelkers (1995). "Bile acid transporters." <i>Curr Opin Lipidol</i> 6(2): 109-14.
	C10	Donahue (2000). "Gap junctions and biophysical regulation of bone cell differentiation." <i>Bone</i> 26(5): 417-22.
	C11	Emi, et al. (1986). "Cloning, characterization and nucleotide sequences of two cDNAs encoding human pancreatic trypsinogens." <i>Gene</i> 41(2-3): 305-10.
	C12	Ferec, et al. (1999). "Mutations in the cationic trypsinogen gene and evidence for genetic heterogeneity in hereditary pancreatitis." <i>J Med Genet</i> 36(3): 228-32.
	C13	Foster, et al. (1988). "Structure and expression of the human metallothionein-IG gene. Differential promoter activity of two linked metallothionein-I genes in response to heavy metals." <i>J Biol Chem</i> 263(23): 11528-35.



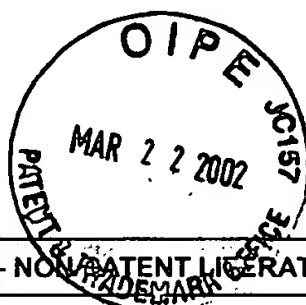
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	C15	GenBank Accession Number: A39682 (17-MAR-2000).
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	C17	GenBank Accession Number: AAB53231 (22-SEP-1999).
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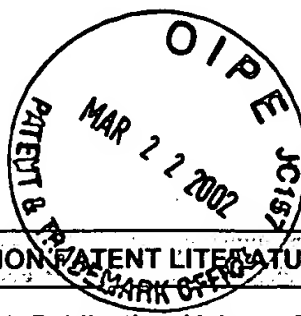


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Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C53	GenBank Accession Number: NP_036620 (01-NOV-2000).
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	C56	GenBank Accession Number: NP_058918 (20-OCT-2001).
	C57	GenBank Accession Number: NP_060207 (10-DEC-2001).
	C58	GenBank Accession Number: NP_066278 (14-MAR-2001).
	C59	GenBank Accession Number: NP_109634 (08-JAN-2002).
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	C87	Georgiadis, et al. (1999). "ADAM-TS8, a novel metalloprotease of the ADAM-TS family located on mouse chromosome 9 and human chromosome 11." <i>Genomics</i> 62(2): 312-5.
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	C89	Hayashi, et al. (2001). "Gene therapy for preventing neuronal death using hepatocyte growth factor: in vivo gene transfer of HGF to subarachnoid space prevents delayed neuronal death in gerbil hippocampal CA1 neurons." <i>Gene Ther</i> 8(15): 1167-73.

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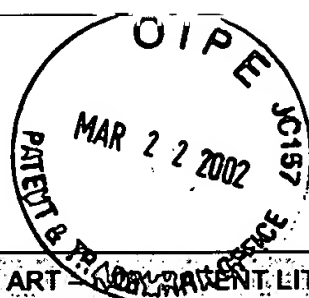


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	C90	Herz, et al. (1988). "Surface location and high affinity for calcium of a 500-kd liver membrane protein closely related to the LDL-receptor suggest a physiological role as lipoprotein receptor." <i>Embo J</i> 7(13): 4119-27.
	C91	Heubi, et al. (1979). "Refractory infantile diarrhea due to primary bile acid malabsorption." <i>J Pediatr</i> 94(4): 546-51.
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	C93	Honey, et al. (1984). "Chromosomal assignments of genes for trypsin, chymotrypsin B, and elastase in mouse." <i>Somat Cell Mol Genet</i> 10(4): 377-83.
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	C103	Korhonen, et al. (2000). "Expression of c-Met in developing rat hippocampus: evidence for HGF as a neurotrophic factor for calbindin D-expressing neurons." <i>Eur J Neurosci</i> 12(10): 3453-61.
	C104	Lammert, et al. (1998). "Localization of the ileal sodium-bile salt cotransporter gene (Slc10a2) to mouse chromosome 8." <i>Mamm Genome</i> 9(2): 173-4.
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	C106	Lee, et al. (1995). "Two classes of proteins dependent on either the presence or absence of thyroid hormone for interaction with the thyroid hormone receptor." <i>Mol Endocrinol</i> 9(2): 243-54.
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	C108	Linseman, et al. (2001). "An essential role for Rac/Cdc42 GTPases in cerebellar granule neuron survival." <i>J Biol Chem</i> 276(42): 39123-31.
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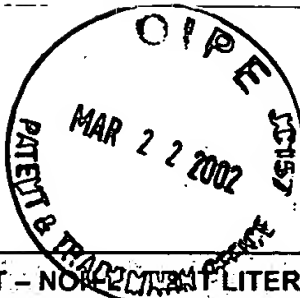


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	C121	Zhu, et al. (2000). "Activation of oncogenic pathways in degenerating neurons in Alzheimer disease." <i>Int J Dev Neurosci</i> <u>18</u> (4-5): 433-7.
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	C123	Powell, et al. (2001). "Hepatocyte growth factor/scatter factor is a motogen for interneurons migrating from the ventral to dorsal telencephalon." <i>Neuron</i> <u>30</u> (1): 79-89.
	C124	Richard, et al. (1998). "Mutations in the human connexin gene GJB3 cause erythrokeratoderma variabilis." <i>Nat Genet</i> <u>20</u> (4): 366-9.
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	C126	Ronsin, et al. (1993). "A novel putative receptor protein tyrosine kinase of the met family." <i>Oncogene</i> <u>8</u> (5): 1195-202.
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	C131	Sahin-Toth and Toth (2000). "Gain-of-function mutations associated with hereditary pancreatitis enhance autoactivation of human cationic trypsinogen." <i>Biochem Biophys Res Commun</i> <u>278</u> (2): 286-9.
	C132	Sakamoto, et al. (1997). "Role of macrophage-stimulating protein and its receptor, RON tyrosine kinase, in ciliary motility." <i>J Clin Invest</i> <u>99</u> (4): 701-9.
	C133	Sato, et al. (1992). "The human prohibitin gene located on chromosome 17q21 is mutated in sporadic breast cancer." <i>Cancer Res</i> <u>52</u> (6): 1643-6.
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	C139	Small, et al. (1972). "The enterohepatic circulation of bile salts." <i>Arch Intern Med</i> <u>130</u> (4): 552-73.



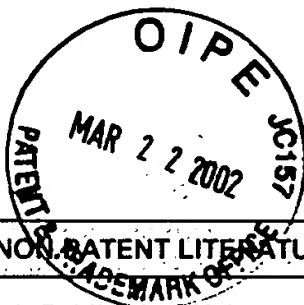


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OTHER PRIOR ART - NON-PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C140	Small (1997). "Point mutations in the ileal bile salt transporter cause leaks in the enterohepatic circulation leading to severe chronic diarrhea and malabsorption." <i>J Clin Invest</i> 99(8): 1807-8.
	C141	Stella, et al. (2001). "Macrophage stimulating protein is a novel neurotrophic factor." <i>Mol Biol Cell</i> 12(5): 1341-52.
	C142	Sutherland and Ledbetter (1989). "Report of the committee on cytogenetic markers." <i>Cytogenet Cell Genet</i> 51(1-4): 452-8.
	C143	SWALL (SPTR) Accession Number: Q14870 (1-AUG-1992).
	C144	SWALL (SPTR) Accession Number: Q9H3S3 (16-OCT-2001).
	C145	SWALL (SPTR) Accession Number: Q9NTQ9 (16-OCT-2001).
	C146	SWALL (SPTR) Accession Number: Q9UKP4 (16-OCT-2001).
	C147	SWALL (SPTR) Accession Number: Q9UKP5 (16-OCT-2001).
	C148	SWALL (SPTR) Accession Number: Q9Y762 (1-NOV-1999).
	C149	Takayama, et al. (2001). "Ulcerative proctitis, rectal prolapse, and intestinal pseudo- obstruction in transgenic mice overexpressing hepatocyte growth factor/scatter factor." <i>Lab Invest</i> 81(3): 297-305.
	C150	Tamura, et al. (1998). "Expression and function of c-Met, a receptor for hepatocyte growth factor, during T-cell development." <i>Scand J Immunol</i> 47(4): 296-301.
	C151	Tani, et al. (1990). "Nucleotide sequence of the human pancreatic trypsinogen III cDNA." <i>Nucleic Acids Res</i> 18(6): 1631.
	C152	Thaysen and Pedersen (1976). "Idiopathic bile acid catharsis." <i>Gut</i> 17(12): 965-70.
	C153	Tian, et al. (2000). "Cdc42-interacting protein 4 mediates binding of the Wiskott-Aldrich syndrome protein to microtubules." <i>J Biol Chem</i> 275(11): 7854-61.
	C154	Townes and Ziegler (1965). "D-E (13-15/17-18) translocation: occurrence in an infant with 45 chromosomes." <i>Am J Dis Child</i> 110(6): 686-8.
	C155	Townes (1967). "Topics in clinical medicine. Complement levels in disease." <i>Johns Hopkins Med J</i> 120(5): 337-43.
	C156	Townes and. Brocks (1972). "Hereditary syndrome of imperforate anus with hand, foot, and ear anomalies." <i>J Pediatr</i> 81(2): 321-6.
	C157	Vazquez, et al. (1999). "METH-1, a human ortholog of ADAMTS-1, and METH-2 are members of a new family of proteins with angio-inhibitory activity." <i>J Biol Chem</i> 274(33): 23349-57.
	C158	Wang, et al. (1994). "Identification of the ron gene product as the receptor for the human macrophage stimulating protein." <i>Science</i> 266(5182): 117-9.
	C159	West, et al. (1990). "Human metallothionein genes: structure of the functional locus at 16q13." <i>Genomics</i> 8(3): 513-8.
	C160	Whitcomb, et al. (1996). "Hereditary pancreatitis is caused by a mutation in the cationic trypsinogen gene." <i>Nat Genet</i> 14(2): 141-5.
	C161	White, et al. (1991). "Assignment of the human prohibitin gene (PHB) to chromosome 17 and identification of a DNA polymorphism." <i>Genomics</i> 11(1): 228-30.
	C162	Wiegand, et al. (1993). "Cloning of the cDNA encoding human brain trypsinogen and characterization of its product." <i>Gene</i> 136(1-2): 167-75.
	C163	Wong, et al. (1995). "Identification of a mutation in the ileal sodium-dependent bile acid transporter gene that abolishes transport activity." <i>J Biol Chem</i> 270(45): 27228-34.
	C164	Wong, et al. (1996). "Localization of the ileal sodium-bile acid cotransporter gene (SLC10A2) to human chromosome 13q33." <i>Genomics</i> 33(3): 538-40.
	C165	Woodlock, et al. (2001). "Prohibitin expression is increased in phorbol ester-treated chronic leukemic B-lymphocytes." <i>Blood Cells Mol Dis</i> 27(1): 27-34.
	C166	Wootton and Federhen (1996). "Analysis of compositionally biased regions in sequence databases."



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		<i>Methods Enzymol</i> 266: 554-71.
	C167	Yoshimura, et al. (1993). "Cloning, sequencing, and expression of human macrophage stimulating protein (MSP, MST1) confirms MSP as a member of the family of kringle proteins and locates the MSP gene on chromosome 3." <i>J Biol Chem</i> 268(21): 15461-8.

\* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. \_\_\_\_\_, filed \_\_\_\_\_, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature		Date Considered	
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